March 1976 Number 379-Part II

# Solar-Geophysical Data comprehensive reports

Data for September 1975–August 1975 & Miscellanea

Explanation of Data Reports Issued as Number 378 (Supplement) February 1976

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / ASHEVILLE, N.C.

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# Solar - Geophysical Data

NO. 379 MARCH 1976

## Part II (Comprehensive Reports)

DATA FOR
SEPTEMBER 1975
AUGUST 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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To standardize referencing these reports in the open literature, the following format is recommended:

Solar-Geophysical Data, 366 Part I (or Part II), pages, February 1975, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80302)

# SOLAR - GEOPHYSICAL DATA

No. 379

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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# Hα SOLAR FLARES

## SEPTEMBER 1975

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IMPOR-TANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 SEP | START | MAX. PHASE | END | APPROX LAT. | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP62825 | 01 | 0805+2 | 0805+4 | 0814 | N08 | E53 | .793 | 13826 | 5.3 | 9 | -F | | | | | | |
| CATA | 01 | 0805 | 0805 | 0815 | N07 | E52 | .783 | 13826 | 5.2 | 10 | -N | 1 | | 0805 | 56 | .9 | |
| MONT | 01 | 0807 | 0809 | 0812 | N10 | E54 | .803 | 13826 | 5.4 | 5 | -F | | C | 0809 | 20 | | |
| GRP62826 | 01 | 1507+3 | 1509+1 | 1522 | N03 | E52 | .787 | 13826 | 5.5 | 15 | 1N | | | | 130 | 2.1 | |
| BOUL | 01 | 1507 | 1509 | 1530 | N05 | E50 | .763 | 13826 | 5.4 | 23 | -N | 2 | C | 1507 | 107 | 1.7 | |
| CATA | 01 | 1510 | 1510 | 1525D | N03 | E51 | .777 | 13826 | 5.5 | 15D | 1N | 3 | | 1510 | 140 | 2.3 | |
| ATHN | 01 | 1512E | 1512U | 1519 | N03 | E54 | .808 | 13826 | 5.7 | 7D | -N | 3 | C | | 144 | | FDE |
| ATHN | 01 | 1512E | 1512U | 1519 | N03 | E54 | .808 | 13826 | 5.7 | 7D | -N | 3 | V | | 144 | | FDE |
| 827 PALE | 01 | 1933 | 1935 | 1945 | N07 | E47 | .727 | 13826 | 5.3 | 12 | -F | 3 | C | | 32 | | DE |
| GRP62828 | 02 | 0923+2 | 0925+1 0932 | 0940 | N07 | E39 | .625 | 13826 | 5.3 | 17 | -N | | | | 100 | 1.3 | FHU |
| MONT | 02 | 0923 | 0926 | 0941 | N09 | E40 | .638 | 13826 | 5.4 | 18 | -N | | C | 0926 | 110 | | E |
| CATA | 02 | 0925 | 0925 | 0945 | N08 | E38 | .611 | 13826 | 5.2 | 20 | -N | 3 | | 0925 | 56 | .7 | |
| ATHN | 02 | 0925E | 0925U | 0938 | N06 | E39 | .626 | 13826 | 5.3 | 13D | -N | 4 | V | | 112 | | U F |
| ATHN | 02 | 0925E | 0925U | 0938 | N06 | E39 | .626 | 13826 | 5.3 | 13D | -N | 4 | C | | 112 | | U F |
| HURB | 02 | 0931 | 0932 | 0942 | N07 | E40 | .639 | 13826 | 5.4 | 11 | 1N | | | | | | H |
| | 02 | 1648 | 1700 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 02 | 1944 | 2029 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 02 | 2040 | 2111 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 02 | 2125 | 2140 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 02 | 2151 | 2231 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 02 | 2259 | 2314 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 02 | 2323 | 2348 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 0032 | 0033 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 0049 | 0050 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 03 | 0053 | 0102 | NO FLARE PATROL | | | | | | | | | | | | | |
| 829 CULG | 03 | 0427E | 0430 | 0437D | N08 | W28 | .466 | 13820 | 1.1 | 10D | -F | | C | 0430 | 30 | .3 | |
| 830 CATA | 03 | 0815 | 0815 | 0825D | N04 | E26 | .439 | 13826 | 5.3 | 10D | -F | 3 | | 0815 | 28 | .3 | |
| 831 MCMA | 03 | 1239 | 1241 | 1247 | N08 | E25 | .419 | 13826 | 5.4 | 9 | -F | | C | 1241 | 20 | .2 | D |
| 832 PALE | 03 | 2115E | 2115U | 2115D | N08 | E22 | .372 | 13826 | 5.5 | | -F | 1 | C | | 15 | | |
| | 04 | 0122 | 0135 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62833 | 04 | 0645 | 0645 0703 | 0723 | N05 | W03 | .065 | 13826 | 4.1 | 38 | -F | | | | | | |
| CATA | 04 | 0645 | 0645 | 0705D | N05 | E01 | .043 | 13826 | 4.4 | 20D | -F | 3 | | 0645 | 28 | .3 | |
| HTPR | 04 | 0654E | 0703 | 0723 | N05 | W04 | .144 | 13826 | 3.7 | 29D | -F | | C | 0703 | 20 | .2 | |
| GRP62834 | 04 | 0911 | 0911 | 0925 | N04 | E10 | .173 | 13826 | 5.1 | 14 | -F | | | | | | D |
| HTPR | 04 | 0911 | 0911 | 0925 | N06 | E10 | .173 | 13826 | 5.1 | 14 | -F | | C | 0911 | 20 | .2 | |
| KHAR | 04 | 0915E | | 0918D | N09 | E10 | .175 | 13826 | 5.1 | 3D | -F | | P | | | | D |
| 835 KHAR | 04 | 1022E | | 1035D | N07 | E07 | .121 | 13826 | 5.0 | 13D | -F | | P | | | | D |
| 836 HTPR | 04 | 1107 | 1109 | 1120 | N06 | E16 | .275 | 13826 | 5.7 | 13 | -F | | C | 1109 | 10 | .1 | |
| GRP62837 | 04 | 1302+1 | 1304+6 1319+3 | 1339 | N05 | E10 | .177 | 13826 | 5.3 | 37 | -F | | | | 40 | .4 | |
| RAMY | 04 | 1302 | 1319U | 1346 | N05 | E10 | .177 | 13826 | 5.3 | 44 | -F | 4 | C | | 40 | | DE |
| MCMA | 04 | 1303E | 1304 | 1330 | N04 | E09 | .165 | 13826 | 5.2 | 27D | -N | | C | 1304 | 20 | .2 | D |
| HTPR | 04 | 1303 | 1310 | 1340 | N04 | E10 | .182 | 13826 | 5.3 | 37 | -F | | C | 1310 | 20 | .2 | E |
| CATA | 04 | 1305E | 1305 | 1315D | N04 | E09 | .165 | 13826 | 5.2 | 10D | -N | 1 | | 1305 | 56 | .6 | |
| RAMY | 04 | 1319E | 1322 | 1338 | N06 | E11 | .191 | 13826 | 5.4 | 19D | -F | 3 | V | | 40 | | DE |
| CATA | 04 | 1325E | 1325 | 1340 | N04 | E09 | .165 | 13826 | 5.2 | 15D | -N | 1 | | 1325 | 56 | .6 | |
| 838 HTPR | 04 | 1340 | | 1402D | N08 | E12 | .207 | 13826 | 5.5 | 22D | -F | | C | 1358 | 10 | .1 | |
| 839 MCMA | 04 | 1641 | 1642 | 1655 | N04 | E08 | .149 | 13826 | 5.3 | 14 | -N | | C | 1642 | 20 | .2 | D |
| | 04 | 2211 | 2215 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 04 | 2247 | 2259 | NO FLARE PATROL | | | | | | | | | | | | | |
| 840 MEUD | 05 | 1630 | 1638 | 1710 | S07 | E90 | 1.000 | 13832 | 12.4 | 40 | -N | | C | 1638 | 70 | | |
| | 06 | 0113 | 0130 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 06 | 0145 | 0230 | NO FLARE PATROL | | | | | | | | | | | | | |
| 841 CATA | 06 | 0700 | 0715 | 0735 | S12 | E89 | 1.000 | 13832 | 13.0 | 35 | ?F | 3 | | 0715 | 28 | | |
| | IMP.2 NO | | MONT2 | MEUD2 | ABST1 | | | | | | | | | | | | |
| 842 MONT | 06 | 0813 | 0815 | 0818 | S13 | E86 | .999 | 13832 | 12.8 | 5 | -F | | C | 0816 | 20 | | D |

# Hα SOLAR FLARES

## SEPTEMBER 1975

| OBSERV-ATORY | OBSERVED UT | | | | LOCATION | | | | | DURA-TION | IMPOR-TANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 SEP | START | MAX. PHASE | END | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| 843 CATA | 07 | 0655 | 0655 | 0705 | N10 | W29 | .482 | 13826 | 5.1 | 10 | -B | 3 | | 0655 | 28 | .3 | |
| | 07 | 1859 | 1912 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 07 | 2133 | 2140 | NO FLARE PATRCL | | | | | | | | | | | | | |
| | 07 | 2150 | 2155 | NO FLARE PATRCL | | | | | | | | | | | | | |
| | 07 | 2159 | 2222 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRPE2844 | 08 | 0159+2 | 0200>9 | 023? | N09 | W37 | .597 | 13826 | 5.3 | 39 | -N | | | | 50 | .6 | DG |
| CULG | 08 | 0159E | 0200 | 0218D | N09 | W37 | .597 | 13826 | 5.3 | 19D | -F | | P | 0200 | 40 | .5 | |
| MANI | 08 | 0201E | 0205 | 0221D | N09 | W37 | .597 | 13826 | 5.3 | 20D | -F | 3 | P | 0205 | 40 | .5 | |
| VORO | 08 | 0201 | 0210 | 0238 | N10 | W37 | .597 | 13826 | 5.3 | 37 | -B | | C | 0210 | 72 | 1.0 | CDG |
| 845 CATA | 08 | 0715 | 0715 | 0735 | N10 | W24 | .405 | 13826 | 6.5 | 20 | -N | 1 | | 0715 | 28 | .3 | |
| GRPE2846 | 08 | 0720+5 | 0721+4 | 0736 | N10 | W38 | .611 | 13826 | 5.5 | 16 | -N | | | | 70 | .9 | |
| ATHN | 08 | 0720 | 0721 | 0731 | N10 | W38 | .611 | 13826 | 5.5 | 11 | -N | 1 | | 0721 | 82 | | |
| CATA | 08 | 0725 | 0725 | 0740 | N10 | W39 | .624 | 13826 | 5.4 | 15 | -N | 3 | | 0725 | 56 | .7 | |
| 847 MCMA | 08 | 1620E | | 1626D | N09 | W46 | .714 | 13826 | 5.2 | 6D | -F | | P | 1620 | 25 | .4 | D |
| | 08 | 1626 | 1633 | NO FLARE PATROL | | | | | | | | | | | | | |
| 848 BOUL | 08 | 1832 | 1835 | 1848 | N08 | W47 | .726 | 13826 | 5.2 | 16 | -F | 2 | C | 1835 | 64 | .9 | |
| | 08 | 2046 | 2124 | NO FLARE PATROL | | | | | | | | | | | | | |
| 849 CULG | 08 | 2200E | 2202 | 2219D | S06 | E45 | .729 | 13832 | 12.3 | 19D | -F | | C | 2202 | 20 | .3 | |
| 850 CATA | 09 | 0635 | 0640 | 0645 | S10 | E44 | .732 | 13832 | 12.6 | 10 | -N | 1 | | 0640 | 56 | .8 | |
| 851 BOUL | 09 | 2144 | 2153 | 2216 | N10 | W82 | .987 | 13826 | 3.8 | 32 | -F | 1 | C | 2153 | 10 | .4 | |
| GRP62852 | 10 | 1416+0 | 1419+2 | 1433 | N09 | W73 | .952 | 13826 | 5.1 | 17 | -F | | | | 40 | | |
| BOUL | 10 | 1416 | 1419 | 1432 | N10 | W72 | .946 | 13826 | 5.2 | 16 | -F | 2 | C | 1419 | 32 | .9 | |
| RAMY | 10 | 1416 | 1421U | 1434 | N08 | W75 | .962 | 13826 | 5.0 | 18 | -F | 3 | C | | 45 | | DE F |
| | 10 | 2145 | 2210 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 11 | 0229 | 0230 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 11 | 1830 | 1833 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 11 | 1912 | 2017 | NO FLARE PATROL | | | | | | | | | | | | | |
| 853 PALE | 11 | 2017E | 2019U | 2019D | S10 | E05 | .308 | 13832 | 12.2 | 2D | -F | 2 | C | | 30 | | F |
| | 11 | 2019 | 2122 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 11 | 2147 | 2315 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 12 | 0022 | 0033 | NO FLARE PATROL | | | | | | | | | | | | | |
| 854 VORO | 12 | 0105E | 0109 | 0122 | S07 | E05 | .260 | 13832 | 12.4 | 17D | -N | | C | 0109 | 63 | .7 | DL |
| | 12 | 0129 | 0130 | NO FLARE PATROL | | | | | | | | | | | | | |
| 855 MCMA | 12 | 1430E | 1430 | 1446 | S09 | E01 | .280 | 13832 | 12.7 | 16D | -F | | C | 1430 | 60 | .6 | E |
| | 12 | 1801 | 1812 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 12 | 1938 | 1953 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 12 | 2052 | 2058 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 12 | 2139 | 2150 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 13 | 0219 | 0229 | NO FLARE PATROL | | | | | | | | | | | | | |
| 856 HTPR | 13 | 1048 | 1050 | 1052 | S08 | W13 | .342 | 13832 | 12.5 | 4 | -F | | C | 1050 | 20 | .2 | E |
| | 13 | 1756 | 1803 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 13 | 1922 | 1932 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 13 | 2016 | 2020 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 13 | 2125 | 2150 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 14 | 0150 | 0305 | NO FLARE PATROL | | | | | | | | | | | | | |
| 857 ATHN | 14 | 0956E | 0956 | 1007 | S08 | W27 | .514 | 13832 | 12.4 | 11D | -F | 1 | | 0956 | 66 | | |
| | 14 | 2142 | 2200 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 15 | 0033 | 0110 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 15 | 0256 | 0302 | NO FLARE PATROL | | | | | | | | | | | | | |
| 858 ISTA | 15 | 0805 | | 0815 | S06 | W39 | .645 | 13832 | 12.5 | 10 | -F | | | | | | 4 |
| 859 HTPR | 16 | 1435E | | 1441D | S09 | W57 | .858 | 13832 | 12.3 | 6D | -F | | C | 1435 | 20 | .3 | |

# Hα SOLAR FLARES

## SEPTEMBER 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 SEP | START | MAX. PHASE | END | APPROX. LAT. | APPROX. MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | COND. | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| | 17 | 0349 | 0359 | NO FLARE PATROL | | | | | | | | | | | | | |
| 860 BOUL | 17 | 1746 | 1753 | 1825 | N06 | E09 | .157 | 13846 | 18.4 | 39 | -F | 1 | C | 1753 | 96 | 1.0 | |
| | 18 | 0445 | 0457 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 0507 | 0511 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 18 | 0527 | 0530 | NO FLARE PATROL | | | | | | | | | | | | | |
| 861 ABST | 18 | 0606 | 0607 | 0610 | N09 | E01 | .036 | 13846 | 18.3 | 40 | -F | | F | 0607 | 105 | 1.1 | EJKV |
| 862 HURB | 18 | 0806 | 0808 | 0822D | N08 | E03 | .054 | 13846 | 18.6 | 160 | ?N | | | | | | |
| | IMP.1 NO | | MONT2 | HTPR2 | | | | | | | | | | | | | |
| 863 HURB | 18 | 0842 | 0845 | 0900 | N10 | E02 | .060 | 13846 | 18.5 | 18 | ?N | | | | | | |
| | IMP.1 NO | | MONT2 | HTPR2 | CATA2 | | | | | | | | | | | | |
| GRP62864 | 18 | 1349+3 | 1352+3 | 1415 | N08 | W01 | .023 | 13846 | 18.5 | 26 | -N | | | | 80 | .8 | EG |
| MONT | 18 | 1349 | 1352 | 1414 | N09 | W01 | .036 | 13846 | 18.5 | 25 | -N | | C | 1352 | 70 | | |
| BOUL | 18 | 1351 | 1353 | 1415 | N08 | E00 | .015 | 13846 | 18.6 | 24 | -F | 1 | C | 1353 | 107 | 1.1 | |
| RAMY | 18 | 1351E | 1353 | 1415 | N08 | W02 | .038 | 13846 | 18.4 | 240 | -F | 4 | C | | 63 | | CE |
| LVOV | 18 | 1352 | 1355 | 1415 | N09 | W02 | .047 | 13846 | 18.4 | 23 | -N | | C | 1355 | 100 | 1.0 | EG |
| HTPR | 18 | 1354E | | 1403D | N08 | W02 | .038 | 13846 | 18.4 | 90 | -N | | C | 1354 | 40 | .4 | |
| 865 ARCE | 19 | 0940E | | 1000D | N09 | W12 | .208 | 13846 | 18.5 | 200 | -F | | C | 0940 | 97 | 1.0 | T |
| GRP62866 | 19 | 1002+0 | 1003+0 | 1005 | N09 | W12 | .208 | 13846 | 18.5 | 3 | -F | | | | 30 | .3 | E |
| HTPR | 19 | 1002 | 1003 | 1005 | N09 | W12 | .208 | 13846 | 18.5 | 3 | -F | | C | 1003 | 20 | .2 | |
| MONT | 19 | 1002 | 1003 | 1005 | N09 | W13 | .225 | 13846 | 18.4 | 3 | -F | | C | 1003 | 40 | | E |
| 867 KHAR | 19 | 1047E | | 1053D | N09 | W13 | .225 | 13846 | 18.5 | 60 | -F | | P | | | | D |
| GRP62868 | 19 | 1112+3 | 1114+1 1124 | 1130 | N08 | W13 | .224 | 13846 | 18.5 | 18 | -F | | | | 20 | .2 | D |
| HTPR | 19 | 1112 | 1114 | 1122 | N08 | W11 | .190 | 13846 | 18.6 | 10 | -F | | C | 1114 | 10 | .1 | |
| KHAR | 19 | 1113E | | 1130D | N09 | W13 | .225 | 13846 | 18.5 | 170 | -F | | C | | | | C |
| CATA | 19 | 1115 | 1115 | 1130 | N09 | W12 | .208 | 13846 | 18.6 | 15 | -F | 3 | | 1115 | 28 | .3 | |
| HURB | 19 | 1123 | 1124 | 1130 | N08 | W16 | .274 | 13846 | 18.3 | 7 | -N | | | | | | D |
| GRP62869 | 19 | 1150>9 | 1159 1205+5 | 1218 | N09 | W14 | .242 | 13846 | 18.4 | 28 | -N | | | | | | |
| HURB | 19 | 1150 | 1210 | 1230 | N08 | W16 | .274 | 13846 | 18.3 | 40 | 1E | | | | | | D |
| UPIC | 19 | 1155E | 1205 | 1220 | N09 | W15 | .258 | 13846 | 18.4 | 25D | -N | | P | 1205 | 102 | | F |
| HTPR | 19 | 1155 | 1159 | 1215 | N09 | W13 | .225 | 13846 | 18.5 | 20 | -N | | C | 1159 | 30 | .3 | E |
| MONT | 19 | 1201 | 1205 | 1214 | N09 | W14 | .242 | 13846 | 18.5 | 13 | -F | | C | 1206 | 40 | | E |
| 870 HTPR | 19 | 1235 | 1239 | 1245 | N09 | W13 | .225 | 13846 | 18.5 | 10 | -F | | C | 1238 | 10 | .1 | |
| GRP62871 | 19 | 1245>9 | 1300 1311 | 1318 | N09 | W14 | .242 | 13846 | 18.5 | 33 | -N | | | | | | |
| HTPR | 19 | 1245 | 1311 | 1325 | N08 | W14 | .240 | 13846 | 18.5 | 40 | -F | | C | 1311 | 10 | .1 | |
| HURB | 19 | 1259 | 1300 | 1310 | N10 | W14 | .244 | 13846 | 18.5 | 11 | 1N | | | | | | |
| 872 UPIC | 19 | 1320 | 1340U | 1400 | N09 | W17 | .291 | 13846 | 18.3 | 40 | -F | | P | 1340 | 61 | | |
| 873 UPIC | 19 | 1415E | | 1420 | N10 | W17 | .293 | 13846 | 18.3 | 5D | -F | | P | 1415 | 41 | | |
| 874 UPIC | 19 | 1440E | | 1500 | N10 | W17 | .293 | 13846 | 18.3 | 20D | -F | | P | 1440 | 82 | | F |
| 875 HTPR | 19 | 1522 | 1525 | 1532 | N09 | W13 | .225 | 13846 | 18.7 | 10 | -N | | C | 1528 | 20 | .2 | E |
| GRP62876 | 19 | 1654 | 1700 1710+2 | 1730 | N09 | W16 | .275 | 13846 | 18.5 | 32 | -N | | | | 140 | 1.5 | |
| HTPR | 19 | 1658 | 1700 | 1708 | N09 | W14 | .242 | 13846 | 18.7 | 10 | -N | | C | 1700 | 40 | .4 | E |
| RAMY | 19 | 1705E | 1710 | 1732 | N08 | W17 | .290 | 13846 | 18.4 | 27D | -N | 4 | C | | 148 | | FDE |
| RAMY | 19 | 1706E | 1712U | 1730 | N09 | W17 | .291 | 13846 | 18.4 | 24D | -N | 4 | V | | 128 | | FDE |
| 877 BOUL | 19 | 2052 | 2104 | 2125 | N06 | W15 | .258 | 13846 | 18.7 | 33 | -F | 1 | C | 2109 | 64 | .7 | |
| 878 ABST | 20 | 0508 | 0510 | 0516 | N09 | W25 | .420 | 13846 | 18.3 | 8 | -F | | C | 0510 | 87 | 1.0 | DJ |
| GRP62879 | 20 | 0640+2 | 0640+4 | 0701 | N09 | W25 | .420 | 13846 | 18.4 | 21 | -F | | | | 50 | .6 | EJ |
| CATA | 20 | 0640 | 0640 | 0705D | N09 | W24 | .404 | 13846 | 18.5 | 25D | -N | 3 | | 0640 | 28 | .3 | |
| BUCA | 20 | 0640 | | 0710 | N10 | W26 | .436 | 13846 | 18.3 | 30 | -F | | C | 0655 | 107 | 1.3 | E |
| ABST | 20 | 0642 | 0643 | 0648 | N09 | W26 | .435 | 13846 | 18.3 | 6 | -F | | C | 0643 | 70 | .8 | DJ |
| HTPR | 20 | 0642 | 0644 | 0656 | N09 | W26 | .435 | 13846 | 18.3 | 14 | -F | | C | 0644 | 60 | .6 | E |
| 880 HTPR | 20 | 0952 | 0954 | 0958 | N06 | E36 | .585 | 13859 | 23.1 | 6 | -F | | C | 0954 | 10 | .1 | |

# Hα SOLAR FLARES

## SEPTEMBER 1975

| OBSERVATORY | OBSERVED UT | | | | LOCATION | | | | | DURATION | IMPORTANCE | OBS. | | MEASUREMENTS | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DATE 1975 SEP | START | MAX. PHASE | END | APPROX LAT. | APPROX MER. DIST. | CENTRAL DISTANCE | McMATH PLAGE REGION | CMP. DAY | MIN. | | COND | TYPE | TIME UT | MEAS. AREA Mill. of Disk | CORR AREA Sq. Deg. | |
| GRP62881 | 20 | 1006>9 | 1025+5 | 1057 | N05 | E36 | .586 | 13859 | 23.1 | 51 | -F | | | | | | DH |
| KHAR | 20 | 1006E | | 1033D | N06 | E37 | .599 | 13859 | 23.2 | 270 | -F | | C | | | | DH |
| HTPR | 20 | 1016 | 1025 | 1054 | N05 | E35 | .572 | 13859 | 23.1 | 38 | -F | | C | 1018 | 20 | .2 | |
| CATA | 20 | 1025 | 1030 | 1100 | N05 | E36 | .586 | 13859 | 23.1 | 35 | -F | 3 | | 1030 | 5 | .1 | |
| 882 HTPR | 20 | 1215 | 1220 | 1236 | S07 | E56 | .844 | 13860 | 24.7 | 21 | -F | | C | 1220 | 20 | .3 | |
| | 20 | 2220 | 2231 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 20 | 2243 | 2300 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 21 | 0019 | 0027 | NO FLARE PATROL | | | | | | | | | | | | | |
| 883 RAMY | 21 | 1515E | 1517 | 1550D | N26 | W71 | .939 | | 16.3 | 350 | 1B | 4 | V | | 190 | | CE |
| | 21 | 1608 | 1620 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 21 | 2200 | 2213 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 22 | 0103 | 0114 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 22 | 0140 | 0148 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 22 | 0150 | 0215 | NO FLARE PATROL | | | | | | | | | | | | | |
| 884 CATA | 22 | 0810 | 0810 | 0840 | N06 | E11 | .190 | 13859 | 23.2 | 30 | -N | 1 | | 0810 | 28 | .3 | |
| 885 KHAR | 22 | 0842E | 0845 | 0912D | N06 | E12 | .207 | 13859 | 23.3 | 30D | -F | | C | | | | H |
| 886 KHAR | 22 | 0945E | 0952 | 1018D | N06 | E10 | .173 | 13859 | 23.2 | 33D | -F | | C | | | | DH |
| GRP62887 | 22 | 1045+5 | 1048+2 | 1055 | N05 | E11 | .193 | 13859 | 23.3 | 10 | -F | | | | | | H |
| KHAR | 22 | 1045E | 1048 | 1052D | N06 | E11 | .190 | 13859 | 23.3 | 7D | -F | | C | | | | H |
| CATA | 22 | 1050 | 1050 | 1055 | N05 | E11 | .193 | 13859 | 23.3 | 5 | -F | 1 | | 1050 | 28 | .3 | |
| 888 UPIC | 23 | 0920E | | 0935 | N10 | W68 | .922 | 13846 | 18.3 | 15D | -F | | P | 0920 | 61 | | |
| 889 UPIC | 23 | 1000E | | 1005 | N10 | W68 | .922 | 13846 | 18.3 | 5D | -F | | P | 1000 | 82 | | F |
| 890 HTPR | 24 | 1432 | 1433 | 1435 | S02 | E28 | .490 | 13862 | 26.7 | 3 | -F | | C | 1433 | 10 | .1 | |
| 891 BOUL | 24 | 1557 | 1604 | 1613 | S01 | E28 | .486 | 13862 | 26.8 | 16 | -F | 2 | C | 1604 | 10 | .1 | B |
| | 25 | 0141 | 0145 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 0206 | 0223 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 0226 | 0234 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 0237 | 0245 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 0328 | 0343 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 0350 | 0410 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 25 | 0449 | 0457 | NO FLARE PATROL | | | | | | | | | | | | | |
| GRP62892 | 25 | 0613E | 0614+0 | 0617 | N08 | W30 | .496 | 13859 | 23.0 | 4 | -F | | | | 20 | .2 | H |
| ATHN | 25 | 0613E | 0614 | 0617 | N08 | W30 | .496 | 13859 | 23.0 | 4D | -F | 4 | C | | 16 | | DE H |
| ATHN | 25 | 0613E | 0614 | 0617 | N08 | W30 | .496 | 13859 | 23.0 | 4D | -F | 4 | V | | 16 | | DE H |
| | 28 | 0333 | 0335 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 28 | 0348 | 0447 | NO FLARE PATROL | | | | | | | | | | | | | |
| | 29 | 0201 | 0447 | NO FLARE PATROL | | | | | | | | | | | | | |

### DAILY FLARE INDICES

Includes all Flares

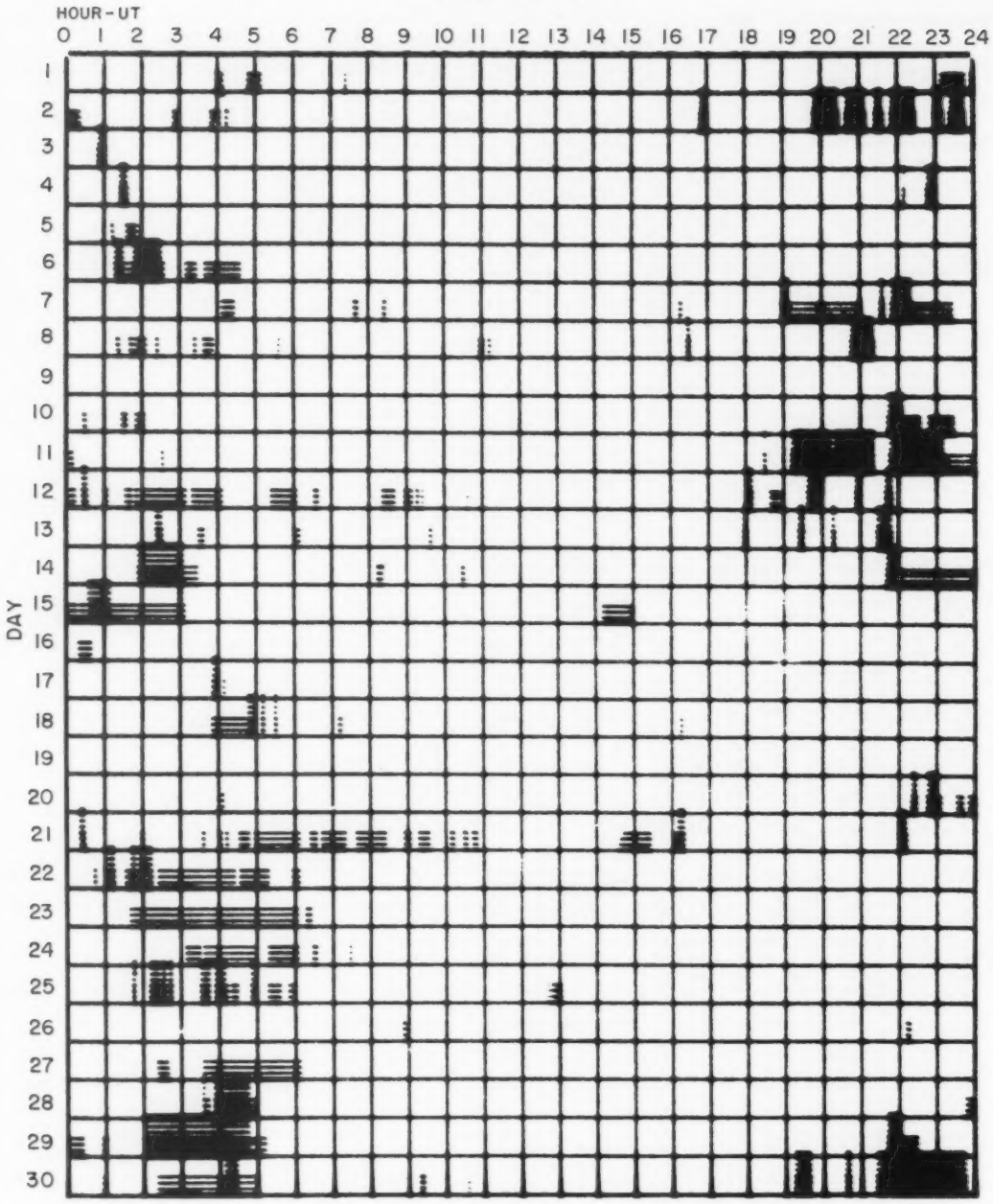
| Date | Flare Index | HR. OBS. | Date | Flare Index | HR. OBS. | Date | Flare Index | HR. OBS. |
|---|---|---|---|---|---|---|---|---|
| 750901. | 12.72 | 24.0 | 750910. | .85 | 23.6 | 750919. | 63.81 | 24.0 |
| 750902. | 5.54 | 21.0 | 750911. | 6.18 | 20.3 | 750920. | 15.39 | 23.5 |
| 750903. | 19.21 | 23.8 | 750912. | 10.58 | 23.0 | 750921. | 7.60 | 23.5 |
| 750904. | 32.51 | 23.5 | 750913. | 5.41 | 23.1 | 750922. | 21.11 | 23.3 |
| 750905. | .84 | 24.0 | 750914. | 3.55 | 22.5 | 750923. | 1.69 | 24.0 |
| 750906. | .88 | 23.0 | 750915. | 3.44 | 23.3 | 750924. | 6.76 | 24.0 |
| 750907. | 3.42 | 23.2 | 750916. | .84 | 24.0 | 750925. | .22 | 22.7 |
| 750908. | 15.07 | 23.3 | 750917. | 5.28 | 23.8 | 750926. | 0.00 | 23.0 |
| 750909. | 2.74 | 24.0 | 750918. | 8.70 | 23.7 | 750929. | 0.00 | 21.2 |

When no Flare Index is given, it is 0 for that day.

# INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

## SEPTEMBER 1975




| | | | | |
|---|---|---|---|---|
| Abastumani | Culgoora | Kharkov | McMath-Hulbert | Tachkent |
| Arcetri | Haute Provence | Kiev | Meudon | Tehran |
| Athenes | Herstmonceux | Kodaikanal | Mitaka | Upice |
| Boulder | Huancayo | Locarno | Monte Mario | Voroshilov |
| Bucharest | Hurbanovo | Lvov | Païehua | Wendelstein |
| Catania | Istanboul | Manila | Ramey | Zürich |

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

# SOLAR RADIO EMISSION
# OUTSTANDING OCCURRENCES
## SEPTEMBER 1975

| SEP 1975 | FREQUENCY | STATION | TYPE | | STARTING TIME UT | TIME OF MAXIMUM UT | DURATION MINUTES | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ PEAK | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ MEAN | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2695 | PENT | 1 | S | 0047 | 0047.7 | 1 | 1.2 | 0.6 | | |
| | 100 | GORK | 6 | S | 0451 | 0451.2 | 1.3 | 60 | 30 | | |
| | 100 | GORK | 41 | IF | 0540.4 | 0540.5 | 1.1 | 60 | | | |
| | 100 | GORK | | | 0540.4 | 0541 | | 25 | | | |
| | 100 | GORK | 4 | SF | 0553.4 | 0557.5 | 5.9 | 50 | | | |
| | 260 | ONDR | 8 | S | 0711.3 | 0711.3 | 0.2 | 8 | | | |
| | 260 | ONDR | 3 | S | 1034.2 | 1034.8 | 2 | 5 | 2 | | |
| | 550 | KIEV | 41 | F | 1216.9 | 1217.2 | 1.9 | 39 | | | |
| | 550 | KIEV | 6 | S | 1235 | 1235.2 | 0.4 | 32 | | | |
| | 550 | KIEV | 41 | F | 1248.2 | 1249.5 | 2.7 | 33 | | | |
| | 550 | KIEV | 8 | S | 1407.1 | 1407.1 | 0.1 | 32 | | | |
| | 550 | KIEV | 8 | S | 1451.7 | 1451.7 | 0.2 | 32 | | | |
| | 2800 | OTTA | 21 | GRF | 1505 | 1510 | 50 | 4.8 | 2 | | |
| | 1420 | BOUL | 23 | GRF | 1506 | 1507.5 | 10 | 3 | 1 | | |
| | 2800 | OTTA | 2 | S/F | 1507 | 1508.9 | 3 | 2 | 1 | | |
| | 2695 | BOUL | 1 | S | 1508 | 1509.5 | 3.5 | 4 | 1 | | |
| | 2800 | OTTA | 20 | GRF | 1932 | 1935 | 40 | 0.8 | 0.3 | | |
| | 18 | MCMA | 6 | S | 2142 | 2144 | 3 | | | 1 | |
| 2 | 221 | ABST | 41 | F | 1039.2 | 1041 | 2 | 5 | | | |
| | 550 | KIEV | 4 | S/F | 1054 | 1054.5 | 0.2 | 42 | | | |
| | 113 | POTS | 45 | C | 1416.4 | 1416.7 | 0.6 | 200 | 40 | | |
| | 410 | SGMR | 6 | S | 1833.6 | 1834.2 | 1.1 | 1.9 | .6 | | |
| | 245 | SGMR | 6 | S | 1833.8 | 1834.2 | 1.1 | 13.4 | 4 | | |
| | 606 | SGMR | 1 | S | 1833.9 | 1834.1 | .5 | 4.5 | 1.3 | | |
| 4 | 2000 | TYKW | 5 | S | 2306.5 | 2307.2 | 2.5 | 3 | 1 | | OR |
| | 2695 | PENT | 1 | S | 2306.8 | 2307.2 | 2 | 4.2 | 2 | | |
| | 2695 | PENT | 29 | FBI | 2308.8 | 2308.8 | 40 | 1.8 | 0.9 | | |
| | 3750 | TYKW | 5 | S | 2306 | 2307 | 3 | 3 | 1 | | OL |
| | 2695 | BOUL | 23 | GRF | 2307 | 2308 | 21 | 8 | 3 | | |
| 6 | 500 | HIRA | | | 0035.3 | 0038 | | 3 | | | |
| | 500 | HIRA | | | 0035.3 | 0036.5 | | 11 | | | |
| | 500 | HIRA | 45 | C | 0035.3 | | 4 | | 1 | | |
| | 2800 | OTTA | 20 | GRF | 1135 | 1202 | 55 | 2 | 1 | | |
| | 260 | ONDR | 45 | C | 1138.7 | 1139.5 | 2 | 35 | | | |
| | 260 | ONDR | 2 | S/F | 1145.3 | 1145.3 | 0.3 | 23 | | | |
| | 2800 | OTTA | 20 | GRF | 1250 | 1310 | 50 | 1 | 0.5 | | |
| | 260 | ONDR | 8 | S | 1346.2 | 1346.2 | 0.2 | 40 | | | |
| | 2800 | OTTA | 20 | GRF | 1405 | 1427 | 50 | 1.4 | 0.7 | | |
| | 2800 | OTTA | 27F | RF | 1505 | | 205 | 1.8 | 1.6 | | |
| | 2800 | OTTA | 24 | R | 1505 | 1515 | 10 | 1.8 | 0.9 | | |
| | 1420 | BOUL | 8 | S | 1513.5 | 1514 | 3 | 5 | 2 | | |
| | 2800 | OTTA | 24P | R | 1515 | | 180 | 1.8 | | | |
| | 2800 | OTTA | 26 | FAL | 1815 | 1830 | 15 | -1.8 | -0.9 | | |
| | 2800 | OTTA | 20 | GRF | 2105 | 2117 | 65 | 1.2 | 0.6 | | |
| | 2000 | TYKW | 5 | S | 2244 | 2244.4 | 1 | 1.1 | 0.3 | | OR |
| | 3750 | TYKW | 5 | S | 2244 | 2244.4 | 1 | 2 | 1 | | OL |
| | 9400 | TYKW | 5 | S | 2244 | 2244.3 | 1 | 3 | 1 | | OL |
| 7 | 3750 | TYKW | 5 | S | 0251 | 0251.3 | 1 | 3 | 1 | | OL, 248034F |
| | 2800 | OTTA | 20 | GRF | 1500 | 1504 | 15 | 1.4 | 0.7 | | |
| | 4995 | BOUL | 1 | S | 1738.5 | 1739.5 | 1.5 | 6 | 2 | | |
| | 2800 | OTTA | 26 | FAL | 2000 | 2010 | 10 | -0.8 | -0.4 | | |
| | 18 | MCMA | 6 | S | 2016 | 2018 | 2 | | | 1 | |
| 8 | 3100 | CRIM | 1 | S | 0720 | 0722 | 4 | 7 | 2 | | |
| | 3100 | CRIM | 24 | R | 1214 | 1224 | | 2 | | | |
| | 2800 | OTTA | 1 | S | 1449.5 | 1451 | 2.5 | 1 | 0.5 | | |
| | 2800 | OTTA | 21 | GRF | 1618 | 1623 | 25 | 0.8 | 0.5 | | |
| | 2800 | OTTA | 1 | S | 1619.5 | 1619.9 | 2.5 | 1.6 | 0.8 | | |
| | 2695 | BOUL | 1 | S | 1620 | 1621 | 2 | 4 | 1 | | |
| | 2800 | OTTA | 20 | GRF | 1723 | 1732 | 32 | 0.6 | 0.3 | | |
| | 2800 | OTTA | 20 | GRF | 1830 | 1834 | 40 | 2.8 | 1 | | |
| 9 | 18 | MCMA | 6 | S | 1415 | 1417 | 2 | | | 1 | |
| 10 | 2800 | OTTA | 1 | S | 1417 | 1418.5 | 2.5 | 3.8 | 1.9 | | |
| | 2800 | OTTA | 29 | FBI | 1419.5 | 1419.5 | 40 | 0.8 | 0.4 | | |
| | 2695 | BOUL | 4 | SF | 1417 | 1419 | 3.5 | 5 | 2 | | |
| 11 | 221 | ABST | 6 | S | 0755 | 0755.2 | 0.8 | 34 | | | |
| | 221 | ABST | 45 | C | 0841 | 0841.5 | 1 | 79 | 32 | | |
| | 221 | ABST | 41 | F | 1016 | 1016.2 | 0.5 | 57 | | | |
| | 221 | ABST | 6 | S | 1023.2 | 1023.5 | 0.5 | 71 | | | |
| | 221 | ABST | 6 | S | 1028 | 1028.2 | 0.5 | 51 | | | |
| | 221 | ABST | 6 | S | 1039 | 1039.2 | 0.5 | 39 | | | |
| | 221 | ABST | 41 | F | 1049.8 | 1050 | 2 | 48 | | | |
| | 221 | ABST | 45 | C | 1054 | 1054.2 | 3 | 79 | 29 | | |
| | 2800 | OTTA | 20 | GRF | 1602 | 1604 | 28 | 0.8 | 0.4 | | |
| | 2800 | OTTA | 20 | GRF | 2010 | 2017 | 35 | 2.4 | 1.2 | | |
| 12 | 18 | MCMA | 6 | S | 1605 | 1606 | 2 | | | 1 | |

# SOLAR RADIO EMISSION
## OUTSTANDING OCCURRENCES
### SEPTEMBER 1975

| SEP 1975 | FREQUENCY | STATION | TYPE | STARTING TIME | TIME OF MAXIMUM | DURATION | FLUX DENSITY $10^{-22}$ Wm$^{-2}$ Hz$^{-1}$ | | INT | POLARIZATION OR REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | UT | UT | MINUTES | PEAK | MEAN | | |
| | 2800 | OTTA | 21 GRF | 1615 | 1640 | 100 | 3.6 | 1.8 | | |
| | 2800 | OTTA | 8 S | 1627 | 1627.4 | 0.5 | 0.6 | 0.3 | | |
| 13 | 260 | ONDR | 8 S | 0953.7 | 0953.7 | 0.2 | 10 | | | |
| 14 | 260 | ONDR | 4 S/F | 1205.5 | 1205.5 | 0.5 | 50 | | | |
| 17 | 221 | ABST | 42 SER | 0740 | 0740.2 | 0.5 | 16 | | | |
| | 221 | ABST | 42 SER | 1025 | 1025.2 | 0.5 | 26 | | | |
| | 2800 | OTTA | 20 GRF | 1755 | 1800 | 30 | 0.4 | 0.2 | | |
| 18 | 3100 | CRIM | 24 R | 1007 | 1246 | | 3 | | | |
| | 260 | ONDR | 42 SER | 1052.3 | 1056.3 | 19.5 | 19 | | | |
| | 1420 | BERL | 1 | 1158 | 1158.2 | 0.9 | 3.1 | 1.1 | | |
| | 930 | BORD | 45 C | 1158.3 | 1158.5 | 0.5 | 44 | 4 | | |
| | 260 | ONDR | 4 S/F | 1233.7 | 1234.7 | 2 | 24 | | | |
| | 18 | MCMA | 6 S | 1313 | 1315 | 2 | | | 1 | |
| | 1420 | BERL | 6 | 1356 | 1358 | 3 | 3.9 | 1.4 | | |
| | 930 | BORD | 45 C | 1356.4 | 1358 | 2.6 | 29 | 3 | | |
| | 260 | ONDR | 42 SER | 1356.5 | 1412.1 | 42.5 | 34 | | | |
| | 808 | ONDR | 2 S/F | 1356 | 1358 | 3 | 28 | 3.2 | | |
| | 3000 | BERL | 3 | 1357 | 1358.5 | 4 | 1.7 | | | |
| | 536 | ONDR | 1 S | 1357.3 | 1357.9 | 1.5 | 10 | 1.8 | | |
| | 18 | MCMA | 41 F | 1735 | 1740 | 5 | | | 1 | |
| | 2800 | OTTA | 20 GRF | 1735 | 1815 | 205 | 1.8 | 0.9 | | |
| 19 | 260 | ONDR | 8 S | 0932.3 | 0932.3 | 0.2 | 18 | | | |
| | 260 | ONDR | 4 S/F | 0934 | 0934.6 | 1 | 19 | | | |
| | 2800 | OTTA | 20 GRF | 1202 | 1208.5 | 45 | 1.4 | 0.7 | | |
| | 2800 | OTTA | 1 S | 1432 | 1434 | 3 | 1.4 | 0.7 | | |
| | 2800 | OTTA | 20 GRF | 1655 | 1710 | 75 | 1.4 | 0.8 | | |
| | 2800 | OTTA | 240 R | 2045 | 2115 | 30 | 1.2 | 0.6 | | |
| | 2800 | OTTA | 24P R | 2115 | | 120 D | 1.2 | | | |
| 22 | 18 | MCMA | 6 S | 1439 | 1441 | 2 | | | 1 | |
| 23 | 260 | ONDR | 7 C | 1425.8 | 1425.8 | 2 | 20 | 4.5 | | |
| | 1420 | BOUL | 1 S | 1923 | 1924 | 2.5 | 2 | 1 | | |
| 24 | 221 | ABST | 41 F | 1026.5 | 1027.8 | 3 | 27 | | | |
| 25 | 221 | ABST | 42 SER | 1012 | 1012.2 | 0.5 | 82 | | | |
| | 221 | ABST | 41 F | 1023.8 | 1024 | 0.5 | 29 | | | |
| 26 | 4995 | BOUL | 23 GFR | 1431 | 1431.5 | 19.5 | 8 | 3 | | |
| 27 | 221 | ABST | 41 F | 0819.2 | 0819.8 | 1.2 | 19 | | | |
| | 221 | ABST | 41 F | 0834.8 | 0836 | 1.2 | 9 | | | |
| | 221 | ABST | 42 SER | 0923.2 | 0923.8 | 1 | 21 | | | |
| | 2695 | BOUL | 1 S | 1600 | 1601 | 2 | 3 | 1 | | |
| 29 | 113 | POTS | 45 C | 1413.2 | 1413.9 | 0.8 | 200 | 20 | | |
| 30 | 221 | ABST | 45 C | 0714.5 | 0715 | 1 | 34 | 13 | | |
| | 221 | ABST | 42 SER | 1020 | 1020.2 | 0.2 | 32 | | | |
| | 3100 | CRIM | 24 R | 1021 | 1048 | | 3 | | | |
| | 113 | POTS | 45 C | 1434.7 | 1435.6 | 1 | 250 | 35 | | |

Reports received from the following observatories:

ABST = Abastumani
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow Izmiran
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

Energetic Solar Particles and Plasma

The data for September 1975 has been delayed by computer graphics problems.

SGD 379 Part II (Comprehensive)

# AUGUST 1975 DATA

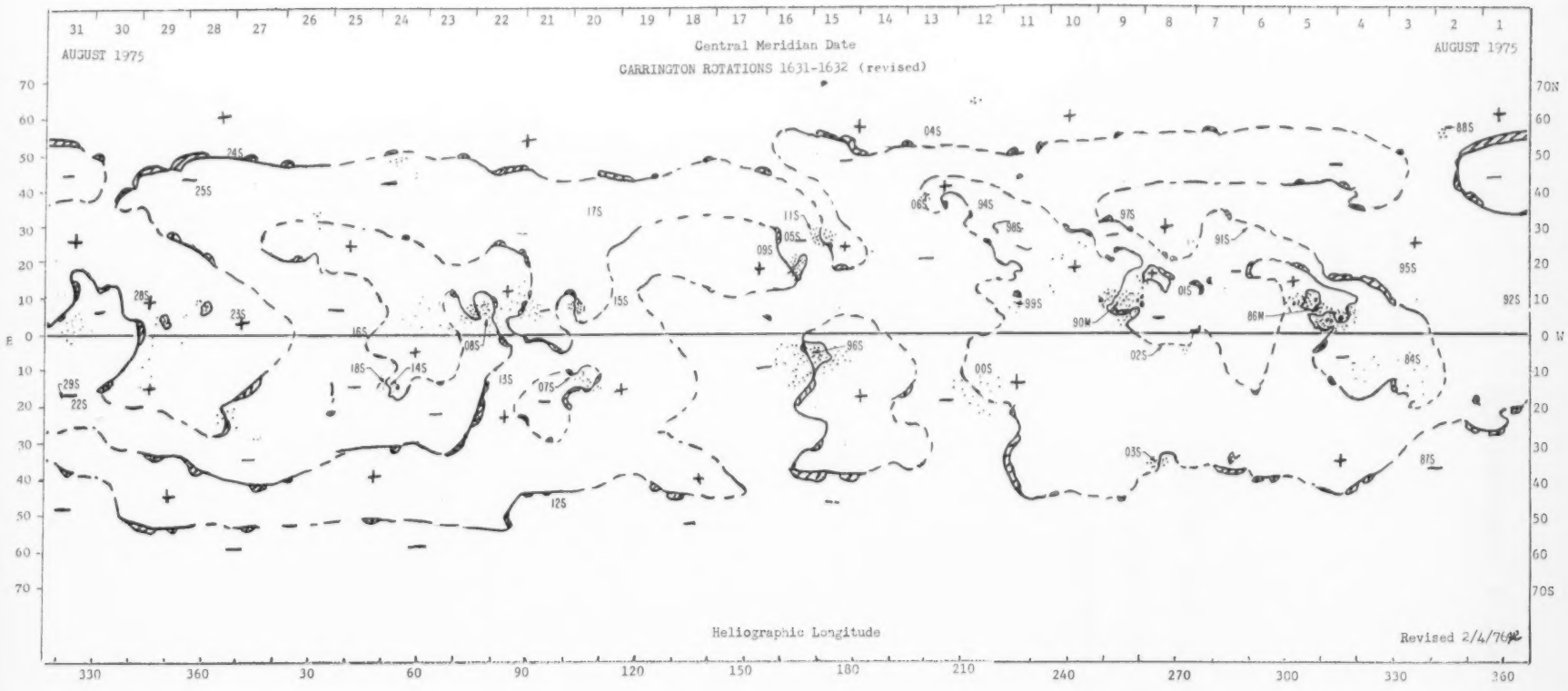
## Contents

| | Page |
|---|---|
| Hα Synoptic Chart (revised) | 14 |
| Abbreviated Calendar Record | 15-22 |
| Regional Flare Index | 22 |

# ABBREVIATED CALENDAR RECORD

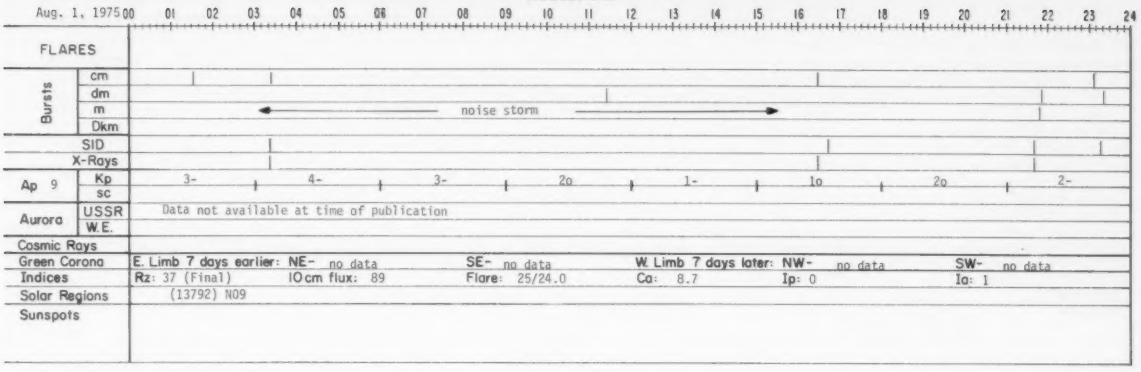
## Hα SYNOPTIC CHART

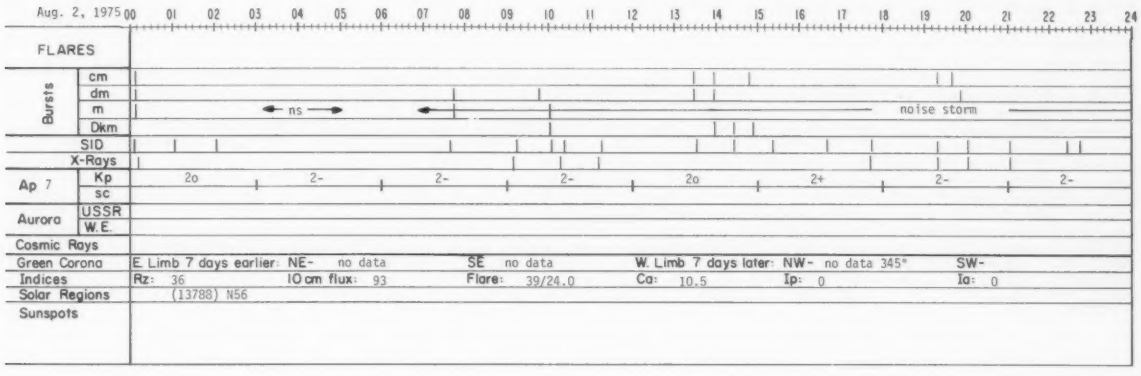
AUGUST 1975

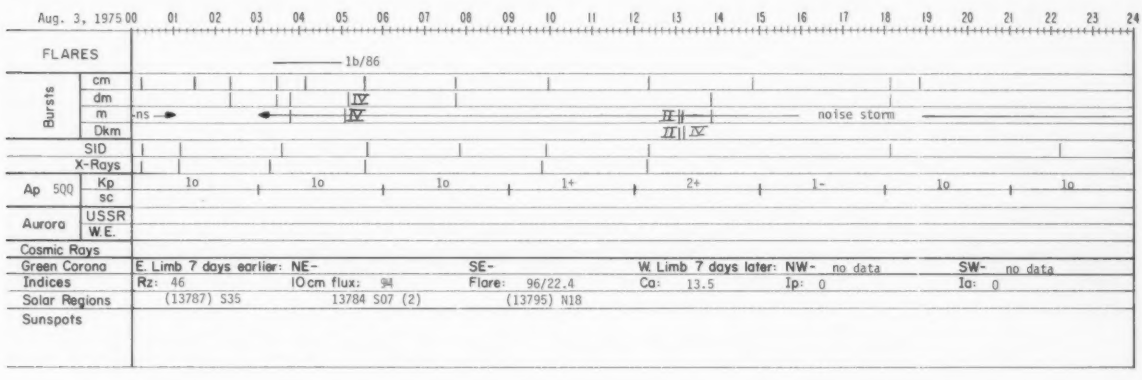


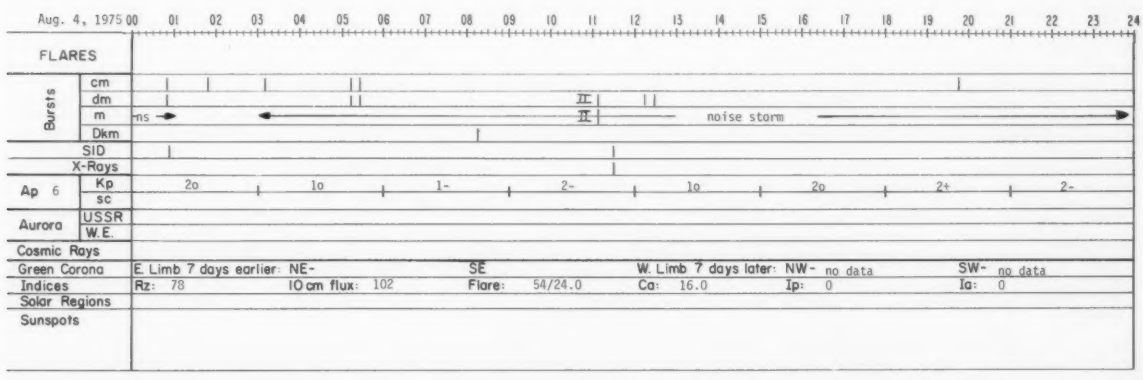
# ABBREVIATED CALENDAR RECORD

AUGUST 1975

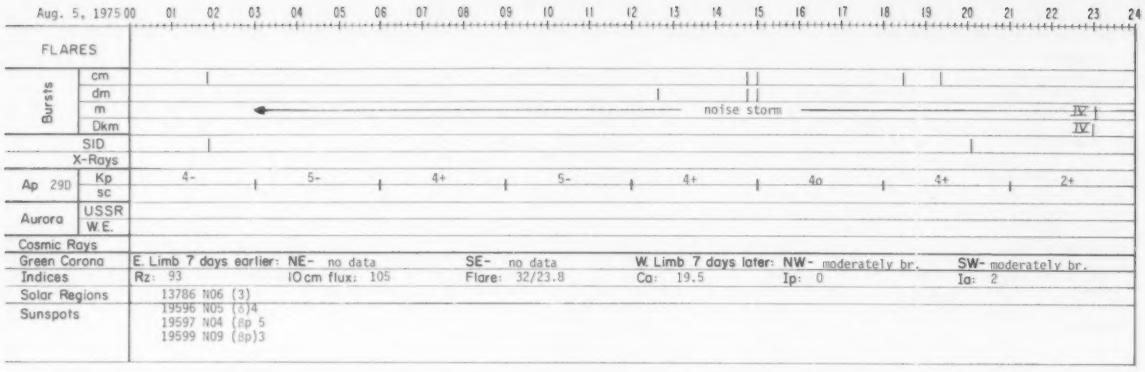


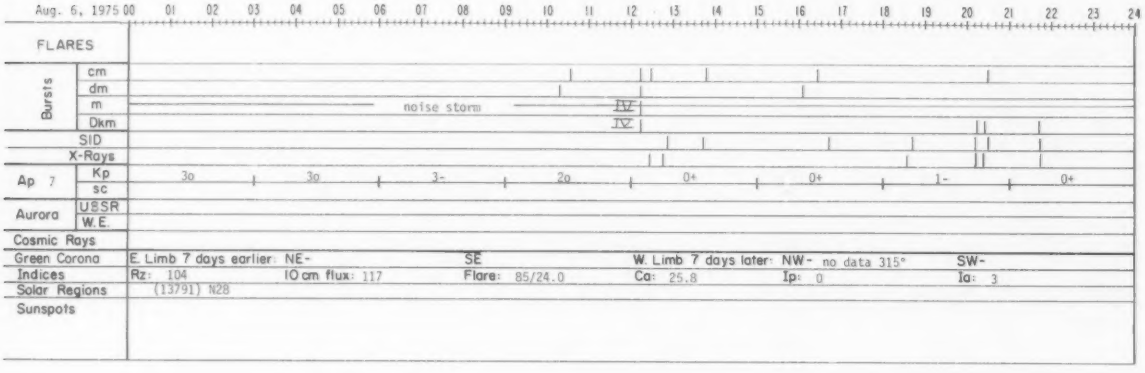



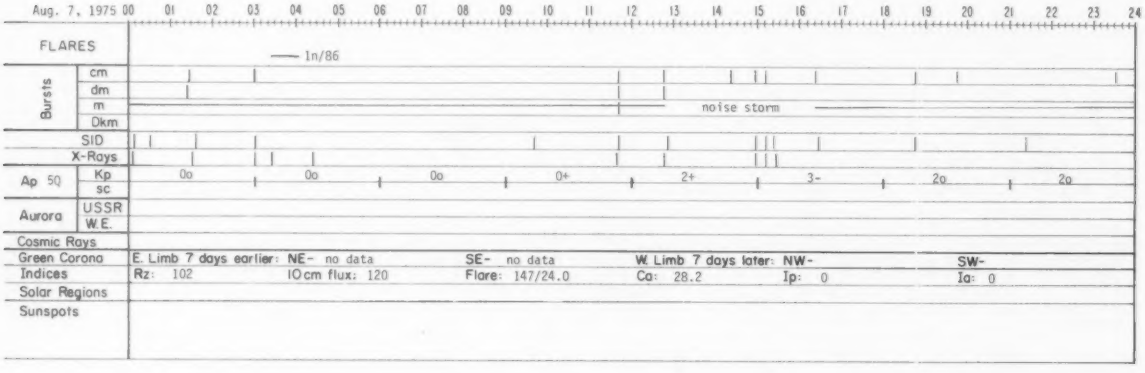



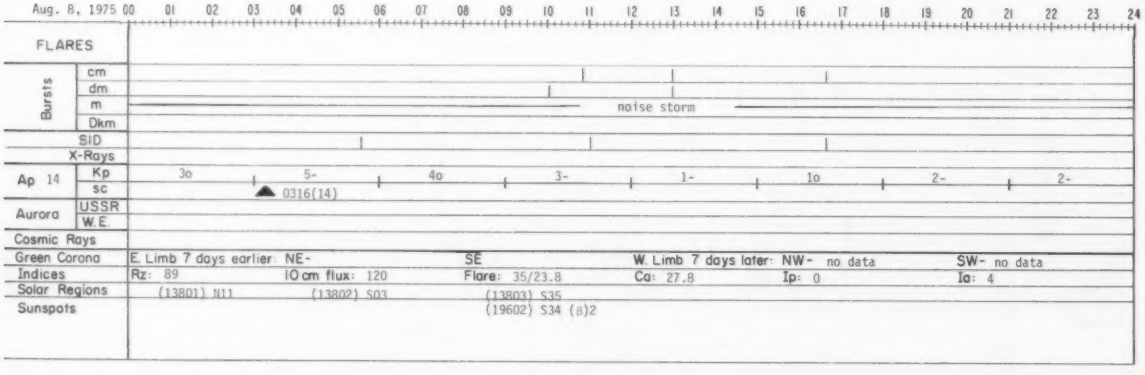



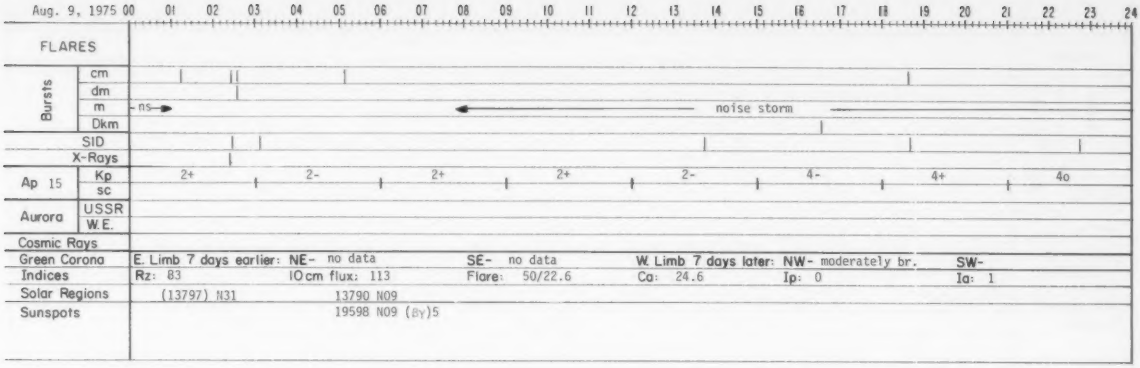
16
Aug 75

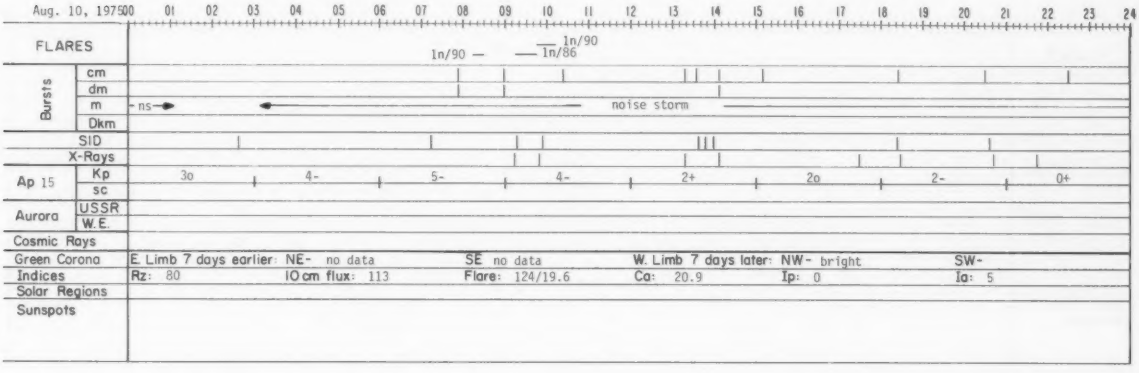

Aug. 5, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
IV
IV
SID
X-Rays
Ap 29D
Kp
sc
4- 5- 4+ 5- 4+ 4o 4+ 2+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- moderately br. SW- moderately br.
Indices
Rz: 93 10 cm flux: 105 Flare: 32/23.8 Ca: 19.5 Ip: 0 Ia: 2
Solar Regions
13786 N06 (3)
19596 N05 (8)4
19597 N04 (Bp 5
19599 N09 (Bp)3
Sunspots

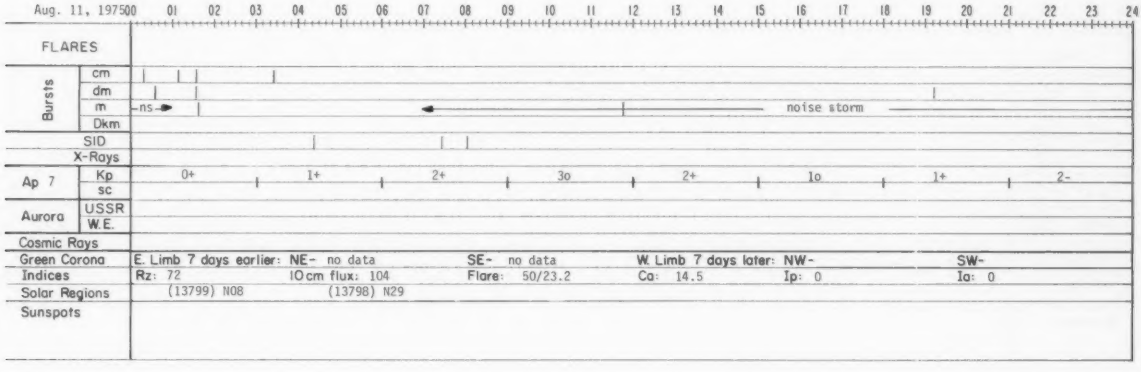

Aug. 6, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
IV
IV
SID
X-Rays
Ap 7
Kp
sc
3o 3o 3- 2o 0+ 0+ 1- 0+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data 315° SW-
Indices
Rz: 104 10 cm flux: 117 Flare: 85/24.0 Ca: 25.8 Ip: 0 Ia: 3
Solar Regions
(13791) N28
Sunspots

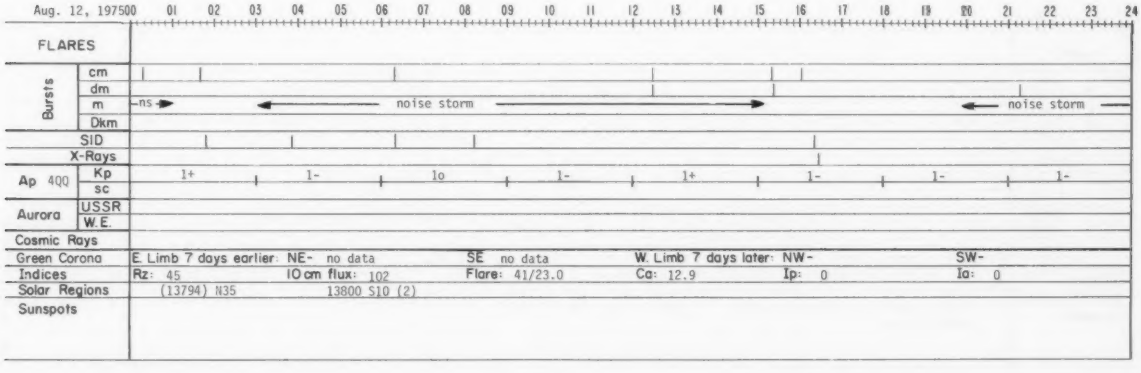

Aug. 7, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/86
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 5Q
Kp
sc
0o 0o 0o 0+ 2+ 3- 2o 2o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices
Rz: 102 10 cm flux: 120 Flare: 147/24.0 Ca: 28.2 Ip: 0 Ia: 0
Solar Regions
Sunspots


Aug. 8, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 14
Kp
sc
3o 5- 4o 3- 1- 1o 2- 2-
0316(14)
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 89 10 cm flux: 120 Flare: 35/23.8 Ca: 27.8 Ip: 0 Ia: 4
Solar Regions
(13801) N11 (13802) S03 (13803) S35
(19602) S34 (8)2
Sunspots


Aug. 9, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 15
Kp
sc
2+ 2- 2+ 2+ 2- 4- 4+ 4o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- moderately br. SW-
Indices
Rz: 83 IOcm flux: 113 Flare: 50/22.6 Ca: 24.6 Ip: 0 Ia: 1
Solar Regions
(13797) N31 13790 N09
Sunspots
19598 N09 (BY)5


Aug. 10, 197500 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1n/90
1n/90
1n/86
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 15
Kp
sc
3o 4- 5- 4- 2+ 2o 2- 0+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- bright SW-
Indices
Rz: 80 IOcm flux: 113 Flare: 124/19.6 Ca: 20.9 Ip: 0 Ia: 5
Solar Regions
Sunspots


Aug. 11, 197500 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
noise storm
SID
X-Rays
Ap 7
Kp
sc
0+ 1+ 2+ 3o 2+ 1o 1+ 2-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Indices
Rz: 72 IOcm flux: 104 Flare: 50/23.2 Ca: 14.5 Ip: 0 Ia: 0
Solar Regions
(13799) N08 (13798) N29
Sunspots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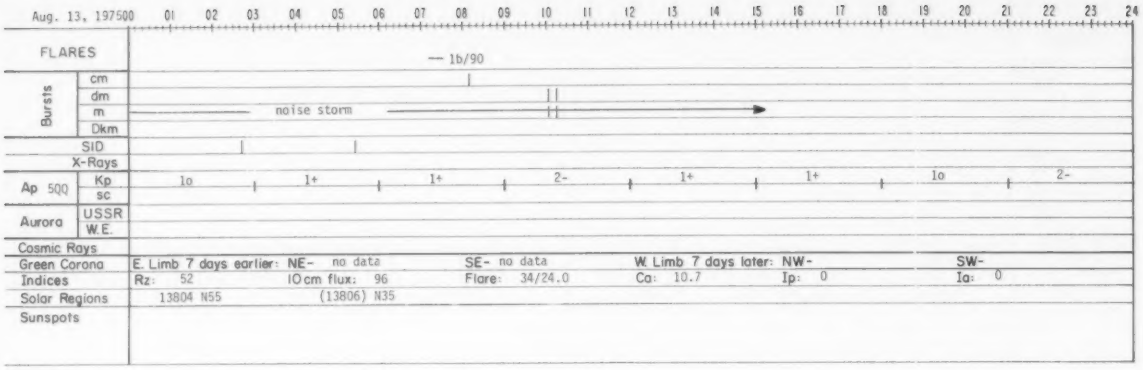
FLARES
Bursts
cm
dm
m
Dkm
ns
noise storm
noise storm
SID
X-Rays
Ap 400
Kp
sc
1+ 1- 1o 1- 1+ 1- 1- 1-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW-
Indices
Rz: 45 IOcm flux: 102 Flare: 41/23.0 Ca: 12.9 Ip: 0 Ia: 0
Solar Regions
(13794) N35 13800 S10 (2)
Sunspots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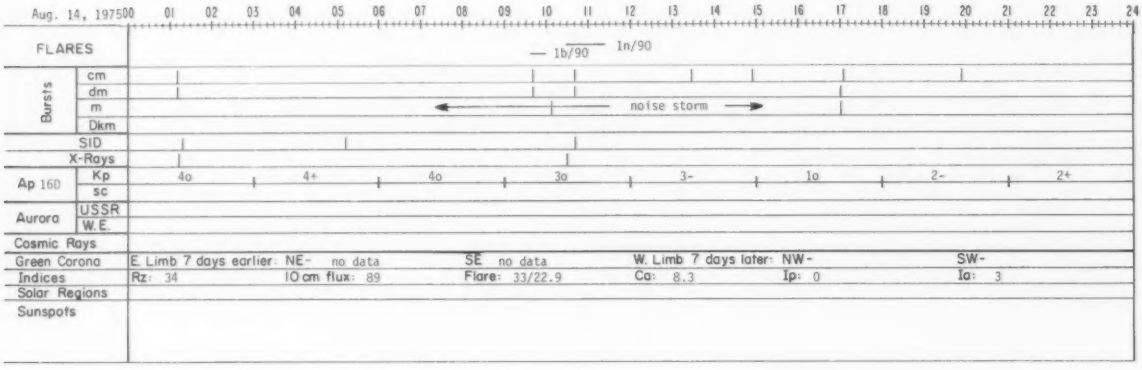
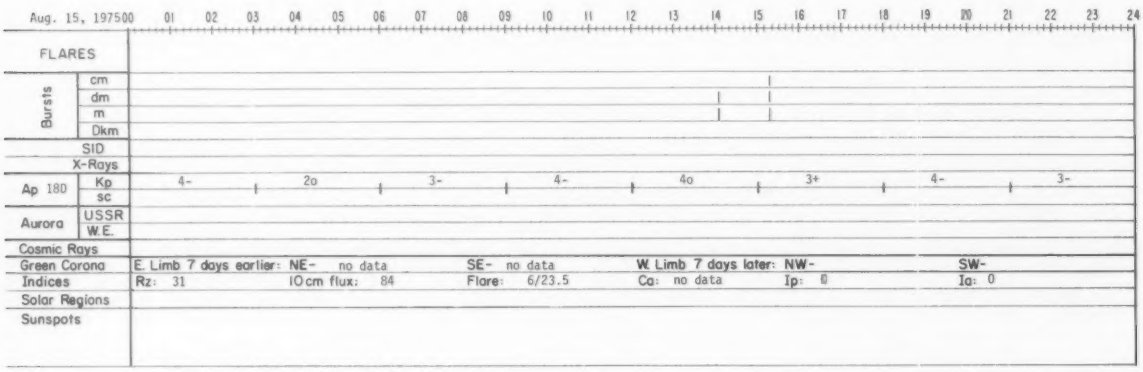
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
— 1b/90
Bursts
cm
dm
m
noise storm
Dkm
SID
X-Rays
Ap 5QQ
Kp
1o 1+ 1+ 2- 1+ 1+ 1o 2-
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 52
10cm flux: 96
Flare: 34/24.0
Ca: 10.7
Ip: 0
Ia: 0
Solar Regions
13804 N55
(13806) N35
Sunspots


Aug. 14, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
— 1b/90 1n/90
Bursts
cm
dm
m
noise storm
Dkm
SID
X-Rays
Ap 16D
Kp
4o 4+ 4o 3o 3- 1o 2- 2+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 34
10cm flux: 89
Flare: 33/22.9
Ca: 8.3
Ip: 0
Ia: 3
Solar Regions
Sunspots


Aug. 15, 1975
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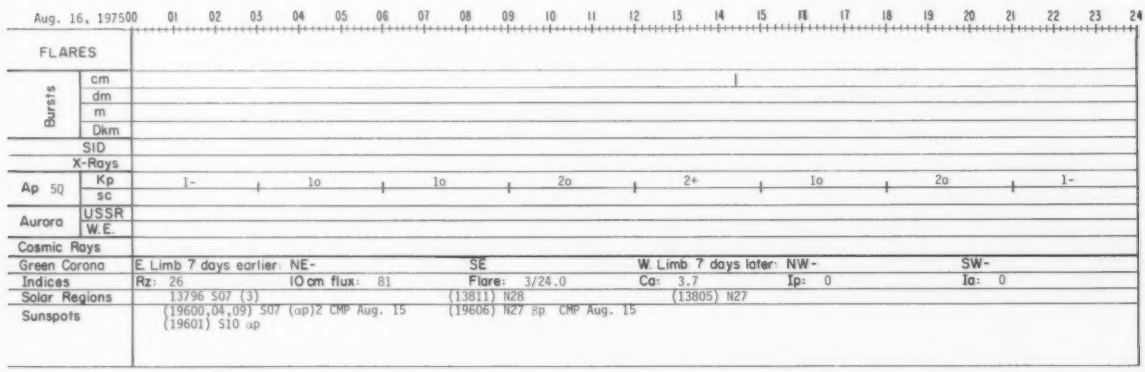
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 18D
Kp
4- 2o 3- 4- 4o 3+ 4- 3-
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE- no data
W. Limb 7 days later: NW-
SW-
Indices
Rz: 31
10cm flux: 84
Flare: 6/23.5
Ca: no data
Ip: 0
Ia: 0
Solar Regions
Sunspots


Aug. 16, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 5Q
Kp
1- 1o 1o 2o 2+ 1o 2o 1-
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE
W. Limb 7 days later: NW-
SW-
Indices
Rz: 26
10cm flux: 81
Flare: 3/24.0
Ca: 3.7
Ip: 0
Ia: 0
Solar Regions
13796 S07 (3)
(13811) N28
(13805) N27
Sunspots
(19600,04,09) S07 (αp)2 CMP Aug. 15
(19606) N27 βp CMP Aug. 15
(19601) S10 αp

Aug. 17, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 9 | Kp | 2+ 3+ 3- 2o 2- 2+ 2o 2- |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data |
| Indices | | Rz: 19 10cm flux: 77 Flare: 8/23.7 Ca: 5.6 Ip: 0 Ia: 0 |
| Solar Regions | | (13809) N23 |
| Sunspots | | (19605) N22 βf)2 CMP Aug. 16 |

Aug. 18, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

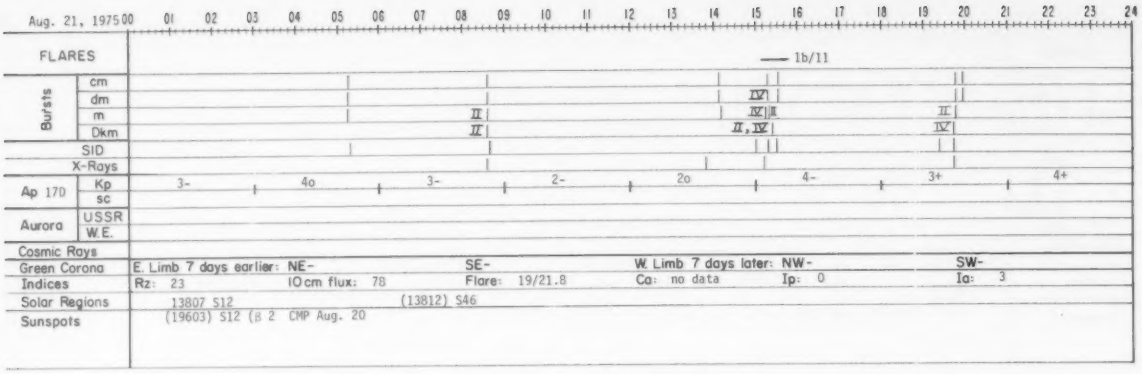
| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 6Q | Kp | 1o 1+ 2o 3- 1o 0+ 2o 1+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 16 10cm flux: 74 Flare: 0/24.0 Ca: 5.7 Ip: 0 Ia: 0 |
| Solar Regions | | |
| Sunspots | | |

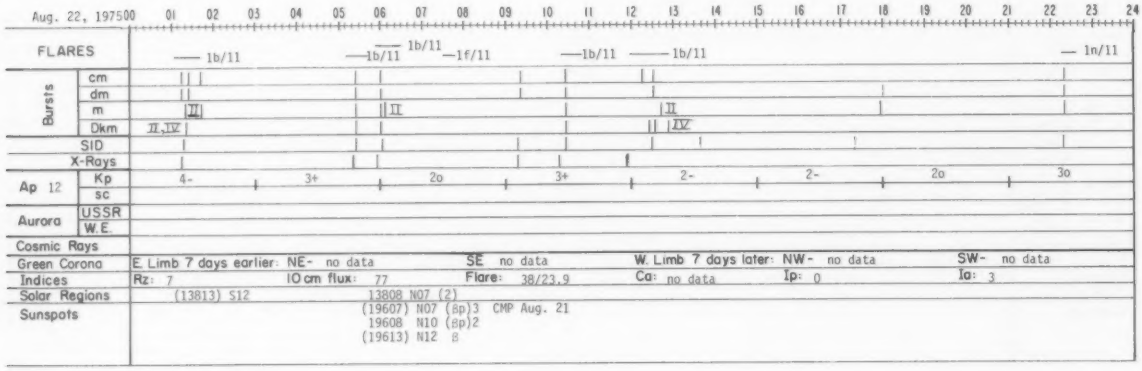
Aug. 19, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

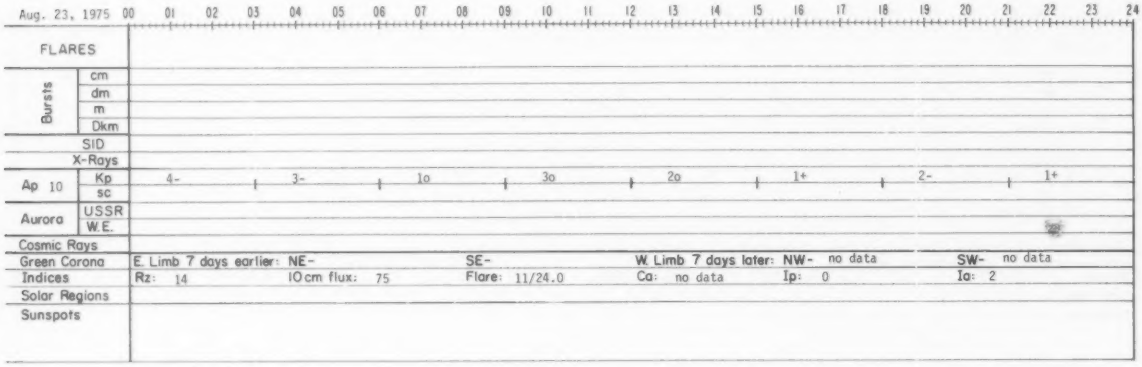
| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 4QQ | Kp | 1o 1- 1+ 1o 1- 1+ 2- 0+ |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 8 10cm flux: 75 Flare: 0/23.0 Ca: no data Ip: 0 Ia: 0 |
| Solar Regions | | |
| Sunspots | | |

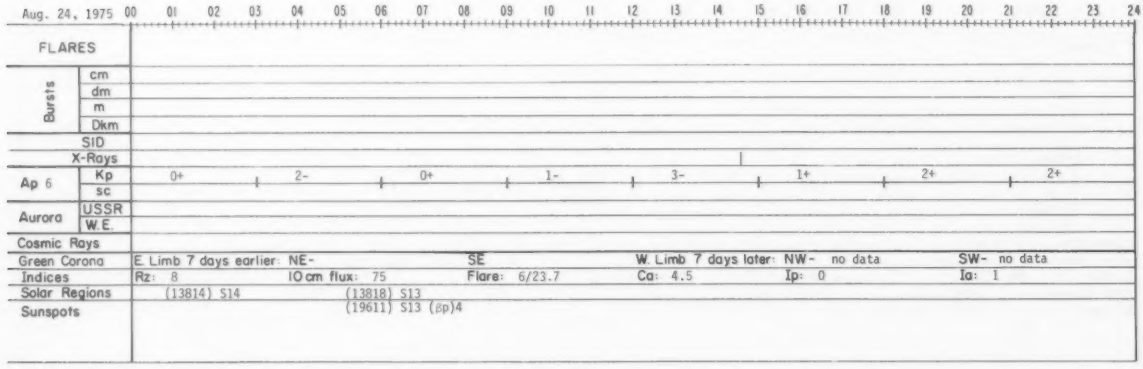
Aug. 20, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

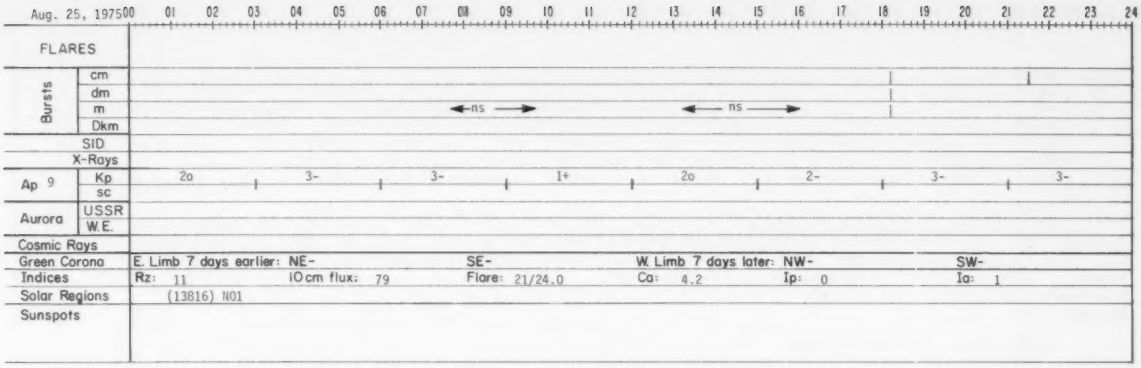
| | | |
|---|---|---|
| FLARES | | |
| Bursts | cm | |
| | dm | |
| | m | |
| | Dkm | |
| SID | | |
| X-Rays | | |
| Ap 15 | Kp | 0o 1- 1o 2o 4- 4+ 3- 5- |
| | sc | |
| Aurora | USSR | |
| | W.E. | |
| Cosmic Rays | | |
| Green Corona | | E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- SW- |
| Indices | | Rz: 22 10cm flux: 75 Flare: 2/22.5 Ca: 7.9 Ip: 0 Ia: 1 |
| Solar Regions | | (13815) N09 (13817) N34 |
| Sunspots | | (19610) N08 βf |

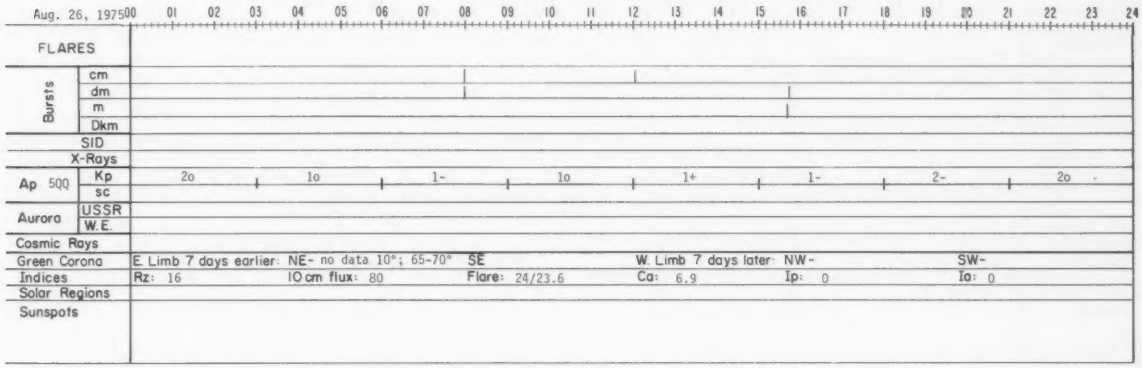

Aug. 21, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1b/11
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 170
Kp
3- 4o 3- 2- 2o 4- 3+ 4+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW-
SW-
Indices
Rz: 23
10cm flux: 78
Flare: 19/21.8
Ca: no data
Ip: 0
Ia: 3
Solar Regions
13807 S12
(13812) S46
Sunspots
(19603) S12 (β 2 CMP Aug. 20

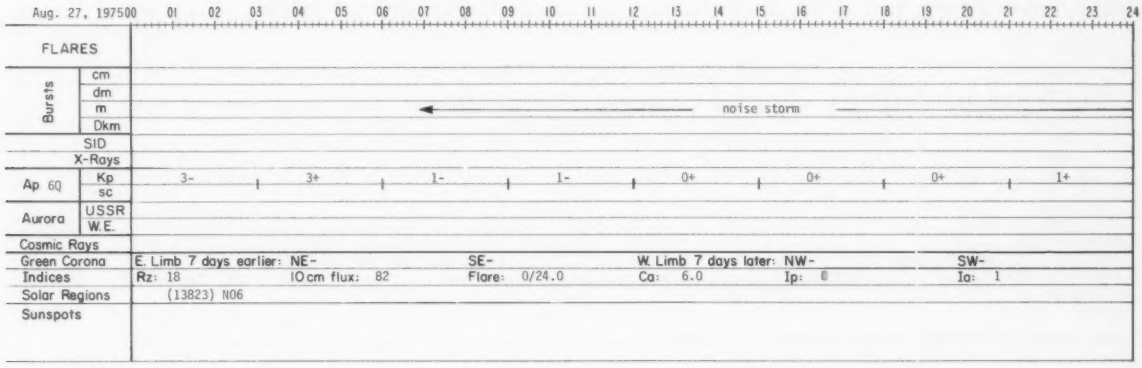

Aug. 22, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
1b/11
1b/11
1b/11
1f/11
1b/11
1b/11
1n/11
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 12
Kp
4- 3+ 2o 3+ 2- 2- 2o 3o
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data
SE no data
W. Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 7
10cm flux: 77
Flare: 38/23.9
Ca: no data
Ip: 0
Ia: 3
Solar Regions
(13813) S12
13808 N07 (2)
Sunspots
(19607) N07 (βp)3 CMP Aug. 21
19608 N10 (βp)2
(19613) N12 β

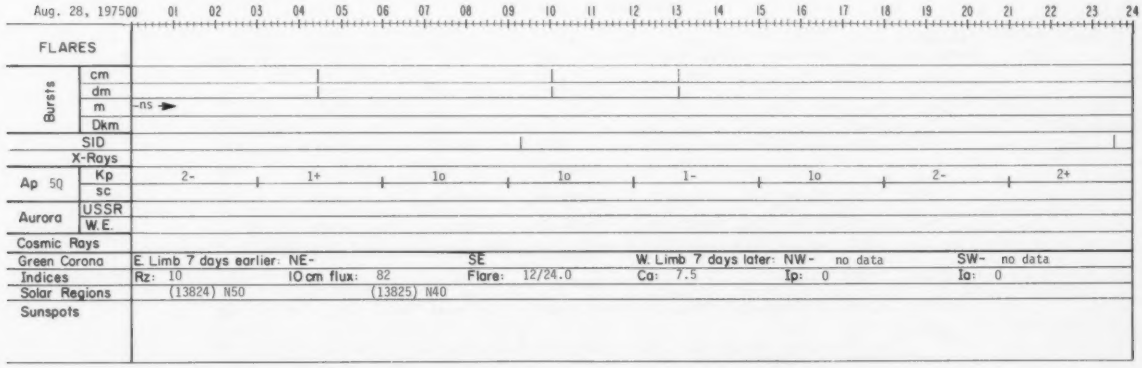

Aug. 23, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 10
Kp
4- 3- 1o 3o 2o 1+ 2- 1+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE-
W. Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 14
10cm flux: 75
Flare: 11/24.0
Ca: no data
Ip: 0
Ia: 2
Solar Regions
Sunspots

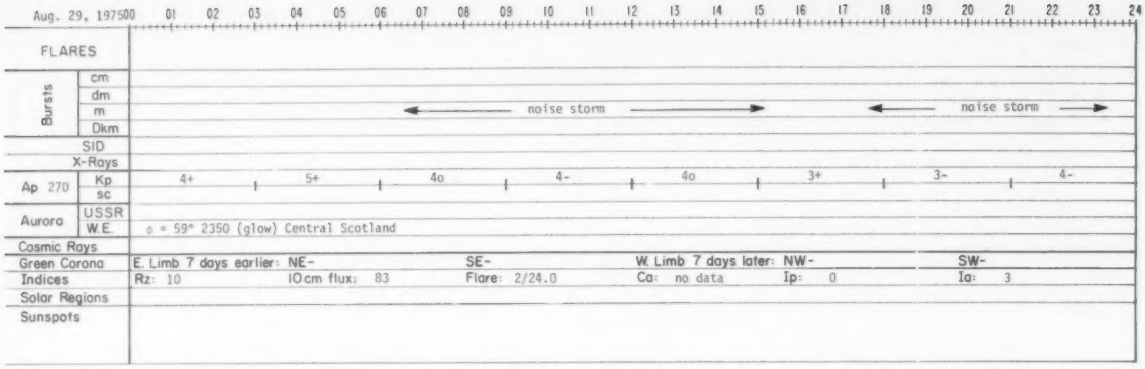

Aug. 24, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 6
Kp
0+ 2- 0+ 1- 3- 1+ 2+ 2+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE-
SE
W. Limb 7 days later: NW- no data
SW- no data
Indices
Rz: 8
10cm flux: 75
Flare: 6/23.7
Ca: 4.5
Ip: 0
Ia: 1
Solar Regions
(13814) S14
(13818) S13
Sunspots
(19611) S13 (βp)4

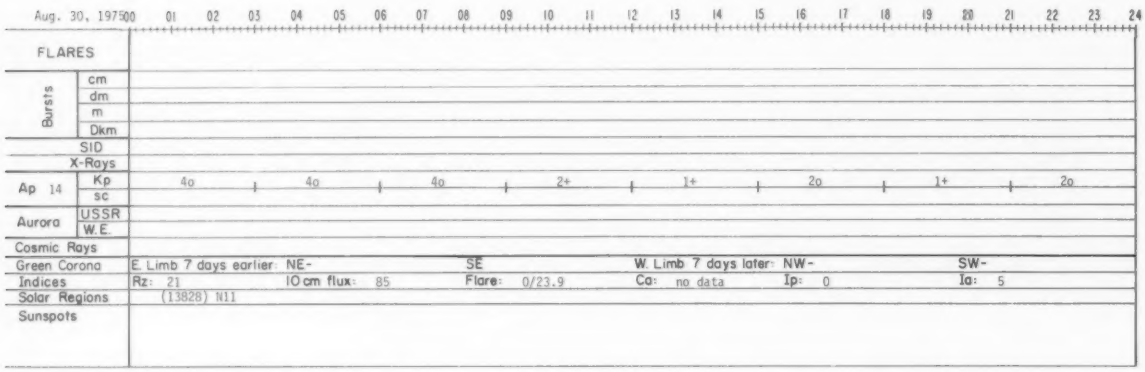

Aug. 25, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
ns
SID
X-Rays
Ap 9
Kp
sc
2o 3- 3- 1+ 2o 2- 3- 3-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices
Rz: 11 10cm flux: 79 Flare: 21/24.0 Ca: 4.2 Ip: 0 Ia: 1
Solar Regions
(13816) N01
Sunspots

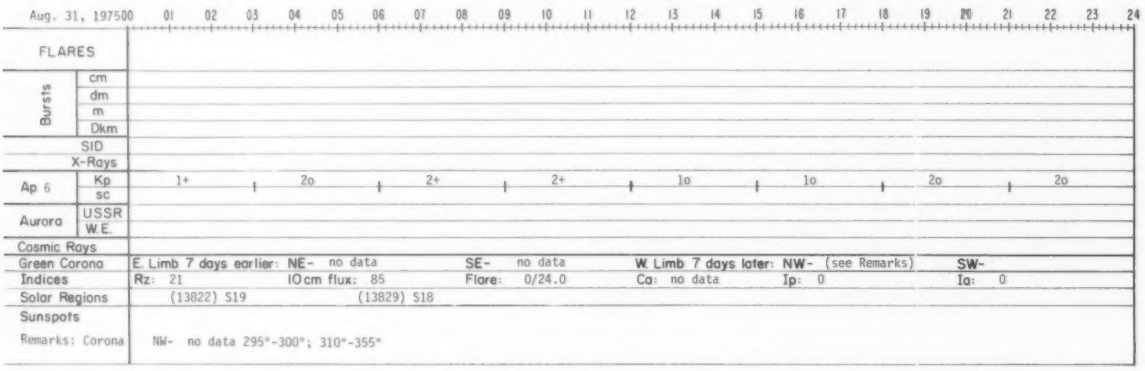

Aug. 26, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 5QQ
Kp
sc
2o 1o 1- 1o 1+ 1- 2- 2o
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data 10°; 65-70° SE W. Limb 7 days later: NW- SW-
Indices
Rz: 16 10cm flux: 80 Flare: 24/23.6 Ca: 6.9 Ip: 0 Ia: 0
Solar Regions
Sunspots


Aug. 27, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 6Q
Kp
sc
3- 3+ 1- 1- 0+ 0+ 0+ 1+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices
Rz: 18 10cm flux: 82 Flare: 0/24.0 Ca: 6.0 Ip: 0 Ia: 1
Solar Regions
(13823) N06
Sunspots


Aug. 28, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
SID
X-Rays
Ap 5Q
Kp
sc
2- 1+ 1o 1o 1- 1o 2- 2+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 10 10cm flux: 82 Flare: 12/24.0 Ca: 7.5 Ip: 0 Ia: 0
Solar Regions
(13824) N50 (13825) N40
Sunspots




## REGIONAL FLARE INDEX
### INCLUDES ALL FLARES

| MC MATH PLAGE NO. | LAT | CMP DATE | DATE FIRST FLARE | DATE LAST FLARE | FLARE-INDEX SUM | FLARE-INDEX MEAN | TOTAL NO. OF FLARES |
|---|---|---|---|---|---|---|---|
| 13786 | N 6 | 75/08/05.4 | 75/07/30 | 75/08/11 | 445.14 | 34.24 | 130 |
| 13803 | S15 | 75/08/04.4 | 75/08/14 | 75/08/14 | .49 | .49 | 1 |
| 13790 | N 9 | 75/08/09.5 | 75/08/01 | 75/08/16 | 414.29 | 25.89 | 154 |
| 13796 | S 8 | 75/08/16.0 | 75/08/14 | 75/08/21 | 8.25 | 1.33 | 5 |
| 13811 | N20 | 75/08/16.1 | 75/08/20 | 75/08/22 | 51.09 | 17.03 | 26 |
| 13807 | S12 | 75/08/21.0 | 75/08/15 | 75/08/25 | 21.71 | 1.97 | 14 |
| 13808 | N 8 | 75/08/22.6 | 75/08/16 | 75/08/26 | 16.22 | 1.47 | 7 |
| 13818 | S13 | 75/08/24.9 | 75/08/25 | 75/08/29 | 51.28 | 10.26 | 21 |
| 13816 | N 1 | 75/08/25.5 | 75/08/23 | 75/08/23 | 5.28 | 5.28 | 1 |

Note:
Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no flares during its disk passage.

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